LISTING OF THE CLAIMS

2 CLAIMS

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- 3 1. (Currently amended) A provisioning method comprising provisioning at least one computing
- 4 environment in a computing utility, said step of provisioning comprising:
- 5 employing a description of each of said at least one computing environment, said description
- 6 directing an invocation of a first service which performs said provisioning, said description being a
- 7 composite resource definition; and
- 8 invoking said first service to perform said provisioning,
- 9 wherein said first service is a provisioning resource service, and said method further comprises
- 10 said first service making available a managed resource service for managing each of said at least
- 11 one computing environment.
- 12 wherein there is at least one provisioning resource service associated with each type of base
- 13 resource and each type of composite resource;
- 14 wherein said provisioning resource service provides a plurality of provisioning instances;
- 15 wherein said provisioning resource service is comprised of a group of provisioning resource
- 16 services, each member of said group of provisioning resource services is associated with a
- 17 particular type of resource in said composite resource description;
- 18 wherein the step of invoking further comprising employing said provisioning resource service for
- 19 the computing environment by recursively employing each member of said group according to
- 20 said composite resource description:

1	wherein each base resource has a base resource instance, and wherein there is at least one
2	managed resource service associated with each base resource instance;
3	wherein there is one managed resource service for all instances of a resource type within a single
4	computing environment;
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5	wherein each composite resource has a composite resource instance, and wherein there is at least
6	one managed resource service associated with each composite resource instance;
7	wherein said managed resource service is comprised of a group of managed resource services.
8	each member of said group of managed resource services is associated with a particular instance
9	of resource in said composite resource description;
10	wherein the step of invoking comprises:
11	obtaining at least one plan to satisfy said at least one computing environment;
12	selecting a particular plan;
13	requesting base resources corresponding to said particular plan from said computing
14	<u>utility;</u>
15	repeating the steps of selecting and requesting until said base resources corresponding to
16	said particular plan is obtained; and
10	said particular plan is obtained, and
17	configuring said base resources into an instance of said computing environment;
18	transforming reservations for base resources into allocated base resources; and

iterating the steps of repeating and transforming until said base resources are obtained;

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- wherein said base resources satisfy a request criterion taken from a group of request criteria comprising;
 a designated time at which the resources will be provisioned;
 duration of resource availability;
 resource-specific selection criteria; and
 any combination of these request criteria.
- 7 wherein the step of obtaining said at least one plan comprises recursively obtaining at least one
- 8 plan for each sub-resource, and combining the result;
- 9 wherein the step of configuring said base resources into an instance of said computing
- 10 <u>environment comprises recursively configuring base resources corresponding to each</u>
- 11 sub-resource, and configuring the result;
- 12 wherein the step of obtaining further comprises specifying at least one condition restricting the
- 13 plans obtained;
- 14 wherein the step of obtaining is repeated according to a repetition criterion taken from a group of
- 15 repetition criteria comprising: changes in the description of the computing environment, changes
- in the set of base resource types, changes in the set of composite resource types; and any
- 17 combination of these repetition criteria;
- 18 wherein the steps of selecting and requesting are repeated according to a repetition criterion taken
- 19 from a group of repetition criteria comprising: changes in the selection criteria, changes in

- 1 resource availability, changes in resource reservation status, changes in said at least one plan; and
- 2 any combination of these repetition criteria;
- 3 wherein the steps of obtaining, selecting, requesting, and configuring are invoked at least once by
- 4 at least one managed resource service to add resources to said computing environment; and
- 5 wherein the step of selecting said plan satisfies a selection criterion taken from a group of
- 6 selection criteria comprising: cost, performance; and number of preferences satisfied; and any
- 7 combination of these selection criteria.
- 8 2. 51. (canceled)

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